- 	*****	Coarch Mout	DB	Time stamp
L Number	Hits	Search Text		2003/09/16 11:21
1 '	2998	sensor\$6 with timer\$5 with (detect\$6 monitor\$5)	USPAT	2003/09/16 11:21
2	7	(sensor\$6 with timer\$5 with (detect\$6	USPAT	2003/09/16 11:19
	•	monitor\$5)) and 709/\$.ccls.	******	
3	69	rita near ziemer	USPAT	2003/09/16 11:12
4	14	(sensor\$6 with timer\$5 with (detect\$6	USPAT	2003/09/16 11:19
		monitor\$5)) and 714/\$.ccls.		
5	37	(sensor\$6 with timer\$5 with (detect\$6	USPAT	2003/09/16 11:40
		monitor\$5)) and (370/\$ 709/\$ 713/\$		
		714/\$).ccls.		0000/00/16 11:40
6	1	("6591296").PN.	USPAT USPAT	2003/09/16 11:48 2003/09/16 11:48
7	0	6591296.pn. and (network\$5) 6591296.pn. and (network\$5 ethernet\$5)	USPAT	2003/09/16 11:49
8 9	1	6591296.pn. and (network\$5 internet\$5)	USPAT	2003/09/16 12:41
10	1	6591296.pn. and (predetermin\$9 set time\$3	USPAT	2003/09/16 12:45
*	-	threshold\$5)		
11	414	(arithmetic\$5 adj unit) with sensor\$5	USPAT	2003/09/16 12:48
12	3	(arithmetic\$5 adj unit) with ((gas adj	USPAT	2003/09/16 12:47
		turbine\$3) (electrical adj generator\$5))		
13	280	(arithmetic\$5 adj unit) near9 sensor\$5	USPAT	2003/09/16 13:33
15	0	6553418.pn. and (predermin\$9)	USPAT	2003/09/16 14:22 2003/09/16 14:23
16	1	6499114.pn. and timer\$5 6499114.pn. and time\$5	USPAT USPAT	2003/09/16 14:23
17 18	1	6499114.pn. and (network\$5 internet\$5	USPAT	2003/09/16 14:29
1 10		ethernet\$5)	001711	2003/03/10 11:23
19	1	6499114.pn. and (network\$5 internet\$5	USPAT	2003/09/16 14:41
		equipment\$5 ethernet\$5)		
20	1	6499114.pn. and (notif\$9)	USPAT	2003/09/16 14:42
21	1	6499114.pn. and operator\$5	USPAT	2003/09/16 15:52
22	1	1	USPAT	2003/09/16 16:01
23	68	halt\$6 stall\$5) (suspend\$6 delay\$5 halt\$6 stall\$5) with	USPAT	2003/09/16 16:02
23	68	(equipment\$5 device\$5) with notificat\$9	USFAI	2003/03/10 10.02
24	6	((suspend\$6 delay\$5 halt\$6 stall\$5)	USPAT	2003/09/16 16:02
	•	with (equipment\$5 device\$5) with		
		notificat\$9) and (709/\$ 714/\$).ccls.		
-	1	("6385114").PN.	USPAT	2003/09/15 12:39
-	1	("20020042811").PN.	USPAT;	2003/09/15 12:41
		, W. C. A. C	US-PGPUB	0000/00/15 10 40
-	1	("6463479").PN. ("20020194386").PN.	USPAT;	2003/09/15 12:42 2003/09/15 13:58
-	1	("20020194386").PN.	US-PGPUB	2003/09/13 13:38
_	1	("6553418").PN.	USPAT	2003/09/15 15:52
_	Ō	6553418.pn. and (notif\$9)	USPAT	2003/09/15 16:07
-	0	6553418.uref.	USPAT	2003/09/15 16:07
-	6		USPAT	2003/09/15 16:10
		or ("6088688") or ("6073174") or		
	1064	("6023507")).PN.	IICDAM	2003/09/15 16:14
-	1864	monitor\$6 with sensor\$6 with (facilit\$6 equipment\$6)	USPAT	2003/09/13 16:14
_	32	equipment(0) (monitor(0) with sensor(0) with (facilit(0) of the control of t	USPAT	2003/09/15 16:10
	52	equipment\$6)) and 709/\$.ccls.		
_	7	monitor\$6 with sensor\$6 with (house\$5	USPAT	2003/09/15 16:15
		near9 (facilit\$6 equipment\$6))		
-	35		USPAT	2003/09/15 16:18
		equipment\$5 television\$6 refriger\$8		
		telephone\$5))	HCD2.T	2002/00/15 16 00
-	1	(timer\$6 with (house\$6 near9 (facilit\$6	USPAT	2003/09/15 16:20
		equipment\$5 television\$6 refriger\$8 telephone\$5))) and (709/\$ 370/\$).ccls.		
_	39		USPAT	2003/09/15 16:19
		equipment\$5 television\$6 refriger\$8		
		telephone\$5)		
	1062	timer\$6 with set\$5 with (facilit\$6	USPAT	2003/09/15 16:20
		equipment\$5 television\$6 refriger\$8		
		telephone\$5)		0000/00/15
-	75		USPAT	2003/09/15 17:44
		equipment\$5 television\$6 refriger\$8	1	
		telephone\$5)) and (709/\$ 370/\$).ccls.	J	

_	26	(timer\$6 with set\$5 with (facilit\$6	USPAT	2003/09/15 16:20
		equipment\$5 television\$6 refriger\$8		
•		telephone\$5)) and notif\$9 and (709/\$		1
	}	370/\$).ccls.	1	
ł –	1	6553418.pn. and (timer\$5 inform\$6)	USPAT	2003/09/15 17:45
-	0	6553418.pn. and (timer\$5 inform)	USPAT	2003/09/15 17:45
-	1	6553418.pn. and (time\$5 inform)	USPAT	2003/09/15 17:46
-	40	(kawamichi near hiroaki).in. (sameshima	USPAT	2003/09/15 18:10
	i	near shigetoshi).in. (kawano near		
	-	katsumi).in.	1	

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Dead-Band or Hysteresis in Control loops

Understanding **Dead-band**

Dead-band is most easily understood as a thermostat that keeps your house warm.

When it is cold the heat comes on until the house is warm at which point it stops (this is the stop point). Then, as time goes by, the house cools off and the furnace needs to restart - this would be the start point.

If the start and stop point are the same value the furnace would go on and off every 30 seconds -causing wear and tear on the fan and wasting fuel. By spreading the start and stop point the furnace runs longer. The difference between the start and stop point is the (**dead-band** or hysteresis of the control loop). Any digital controller can have 100% **dead-band** - older analog systems were sometimes limited in **dead-band** range.

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